

FIGURE 1

SP22 1 MASKRALVILAKGAEEMETVIPVDIMRRAGIKVTVAGLAGKDPVQCSRDV 50
 |||||:|||||
 DJ-1 1 MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAGKDPVQCSRDV 50
 Peptide 1

SP22 51 VICPDTSLEEAKTQGPYDVVVLPGGNLGAQNLSSESALVKEILKEQENRKG 100
 |||||.|||:| |||||:|||||
 DJ-1 51 VICPDASLEDKKEGPYDVVVLPGGNLGAQNLSSESAAVKEILKEQENRKG 100
 Peptide 2

SP22 101 LIAAICAGPTALLAHEVGFGCKVTSHPLAKDKMMNGSHYSSESERVEKD 149
 |||||:| |:|:|||||
 DJ-1 101 LIAAICAGPTALLAHEIGCGSKVTTHPLAKDKMMNGGHYTYSENERVEKD 149
 Peptide 3

SP22 150 GLILTSRGPGETSFEFALAIVEALSGKDMANQVKAPLVLKD 189
 |||||:| |||||
 DJ-1 150 GLILTSRGPGETSFEFALAIVEALNGKEVAAQVKAPLVLKD 189
 Peptide 4

0933514-010301
 T06070-4T55260

[illegible]

1	A	gctgtgcagagccgctctgtggcaggggttgacctcctaaagggatattccatcttttattaatcattag	65
66	A	tagtgtgggtcagagaccttagcaccatttggtctcccccaacctgggtccagacattttcagcagttta	130
131	A	tcggaacagcaacaacagcaacaaaaccttcaaaatttacaagtctttaagaaatagaaATGgca	195
	B	tggcttcgcgtgggtggaggaggcgcggtgcaggtctttaagaaatagaaATGgca	
1			M A 2
196		tccaaaagagctctgggtcatcctagccaaaggagcagaggagatggagacagtgattcctgtgga	260
16		S K R A L V I L A K G A E E M E T V I P V D	24
261		catcatgcggcgagctgggattaaagtcaccggttgagggttggtgggaaggacccccgtgcagt	325
38		I M R R A G I K <u>V T V A G L A G K D P V Q</u>	45
		Peptide 1	
326		gtagccgtgatgtagtgatttgtccggataccagctctggaagaagcaaaaaacacagggaccatac	390
59		<u>C S R</u> D V V I C P D T S L E E A K T Q G P Y	67
391		gatgtggttggttcttccaggaggaaatctgggtgcacagaacttatctgagtcggcttttggtgaa	455
81		D V V V L P G G N L G A Q N L S E S A L V K	89
456		ggagatcctcaaggagcaggagaacaggaagggcctcatagctgccatctgtgcgggtcctacgg	520
103		<u>E I L K</u> E Q E N R K G L I A A I C A G P T	110
		Peptide 2	
			*
521		ccctgctgggtcacgaagtaggctttggatgcaaggttacatcgccaccattggctaaggacaaa	585
124		A L L A H E V G F G C K V <u>T S H P L A K</u> D K	132
		Peptide 3	
586		atgatgaacggcagtcactacagctactcagagagccgtgtggagaaggacggcctcatcctcac	650
146		M M N G S H Y S Y S E S R V E K <u>D G L I L T</u>	154
		Peptide 4	
651		cagccgtgggcctgggaccagcttcgagtttgcgctggccattgtggaggcactcagtggaagg	715
168		<u>S R</u> G P G T S F E F A L A I V E A L S G K	175
716		acatggctaaccaagtgaaggccccgcttgttctcaaagacTAGagagcccaagccctggaccct	780
189		D M A N Q V K A P L V L K D *	189
781		ggacccccaggctgagcaggcattggaagcccactagtgtgtccacagcccagtgaaacctggcat	845
846		tggaagcccactagtgtgtccacagcccagtgaaacctcaggaactaacgtgtgaagtagcccgct	910
911		gctcaggaatctcgccctggctctgtactattctgagccttgctagtagaataaacagttcccca	975
976		aqctc*c*tgacggct*	985

Figure 3

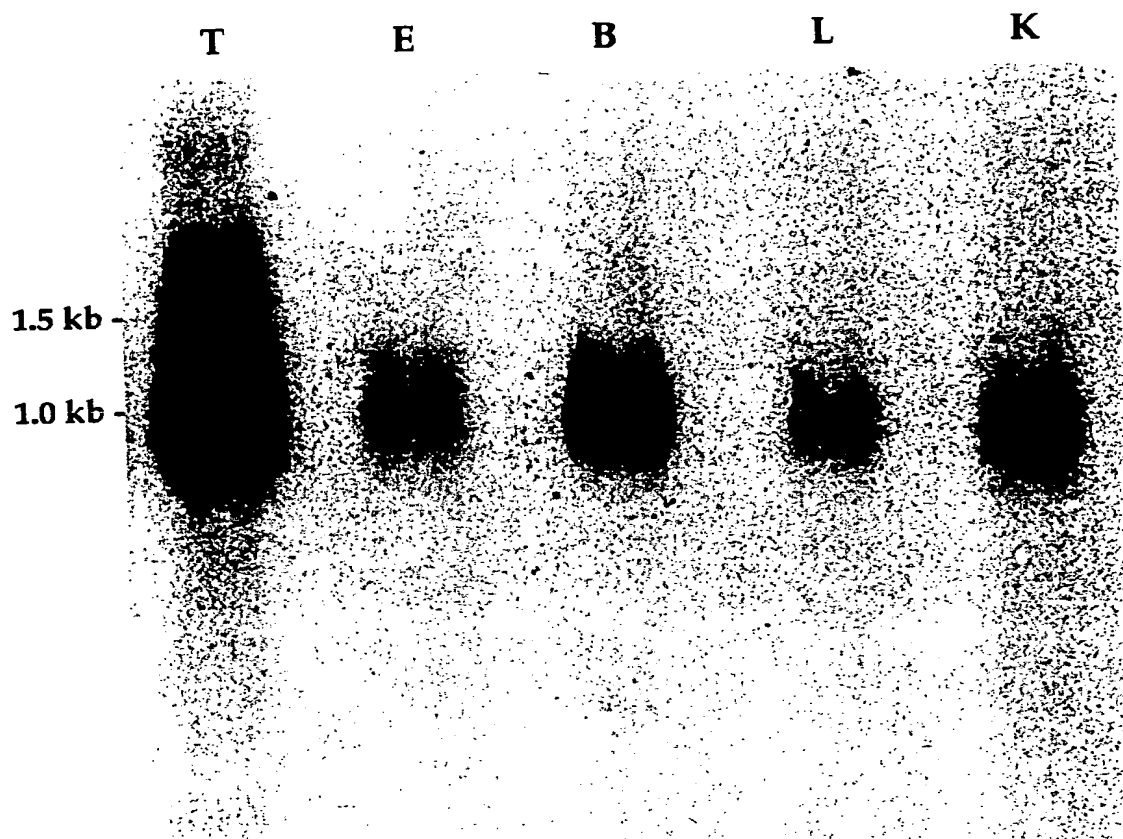


Figure 4

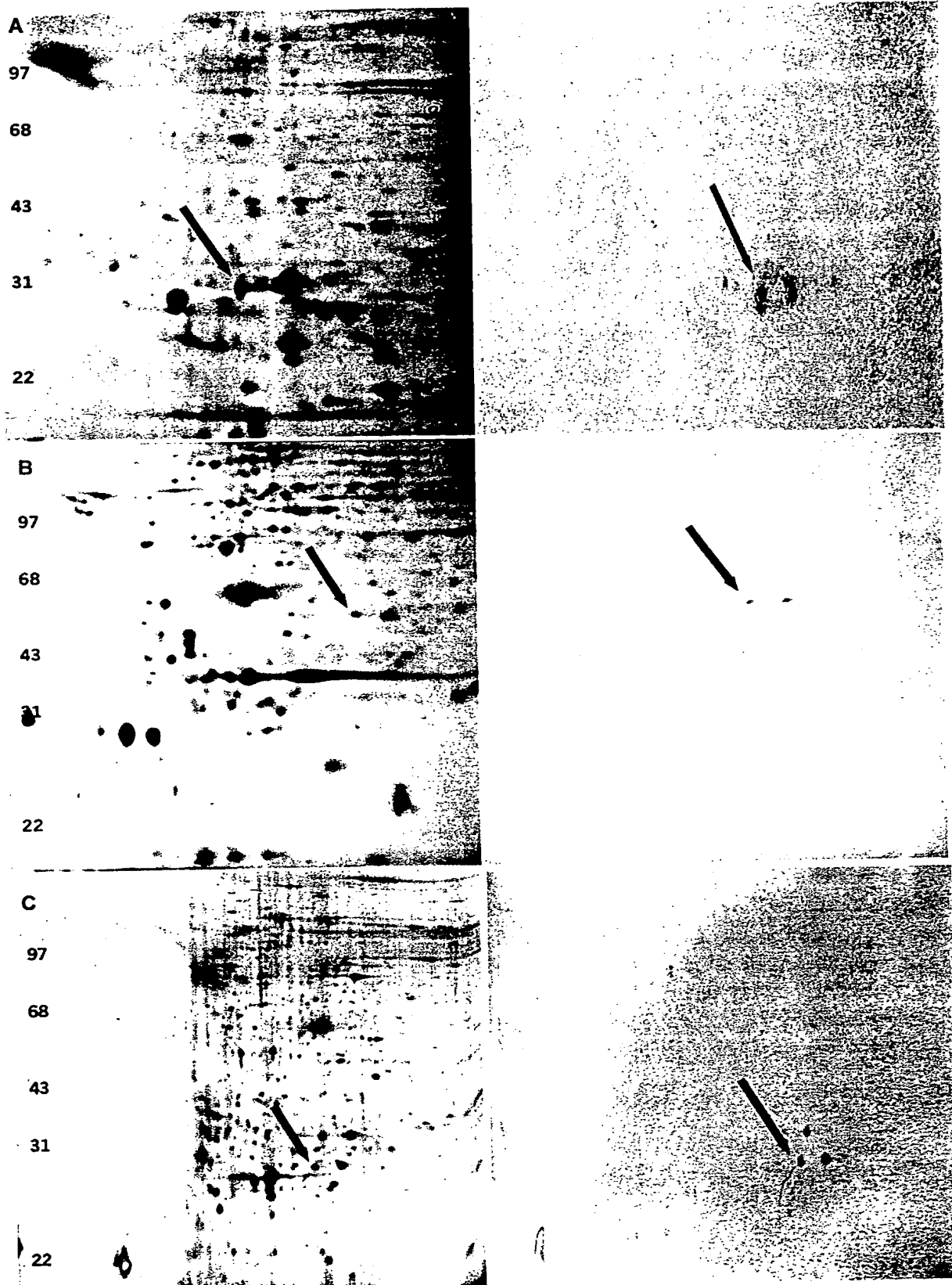


Figure 5

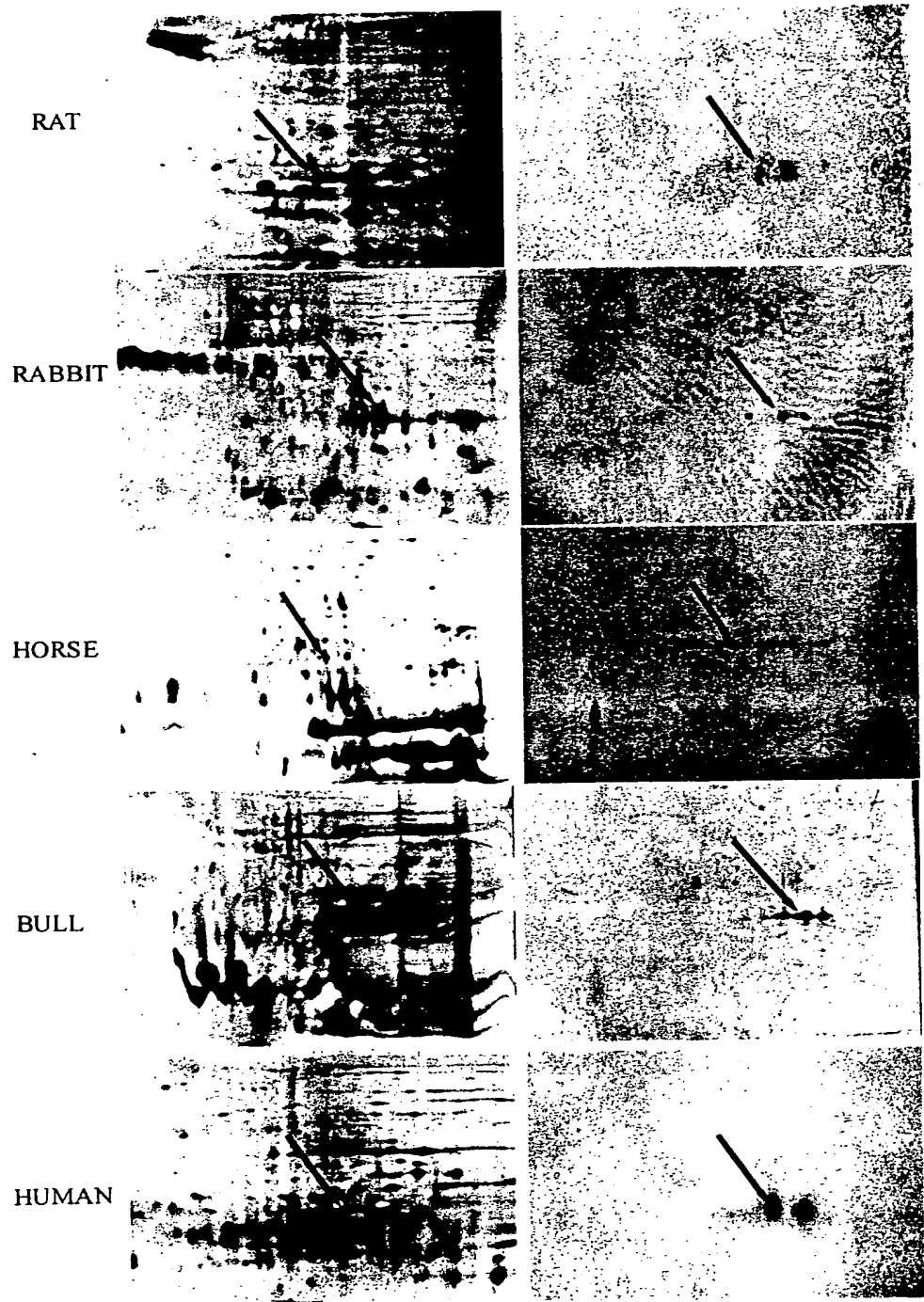


Figure 6

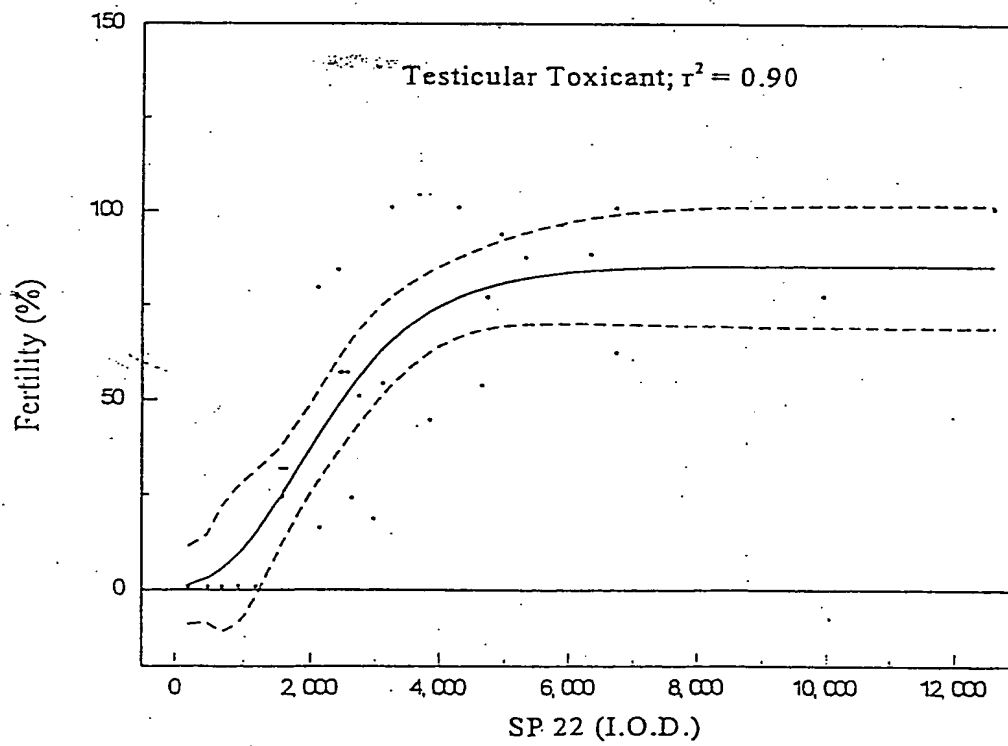
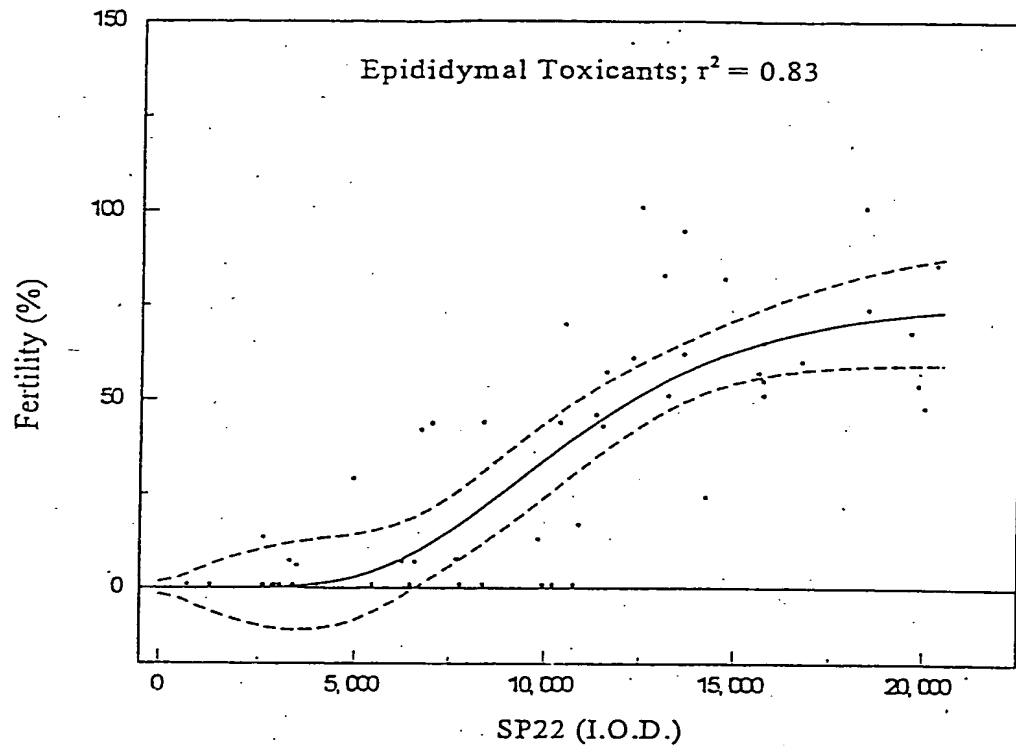
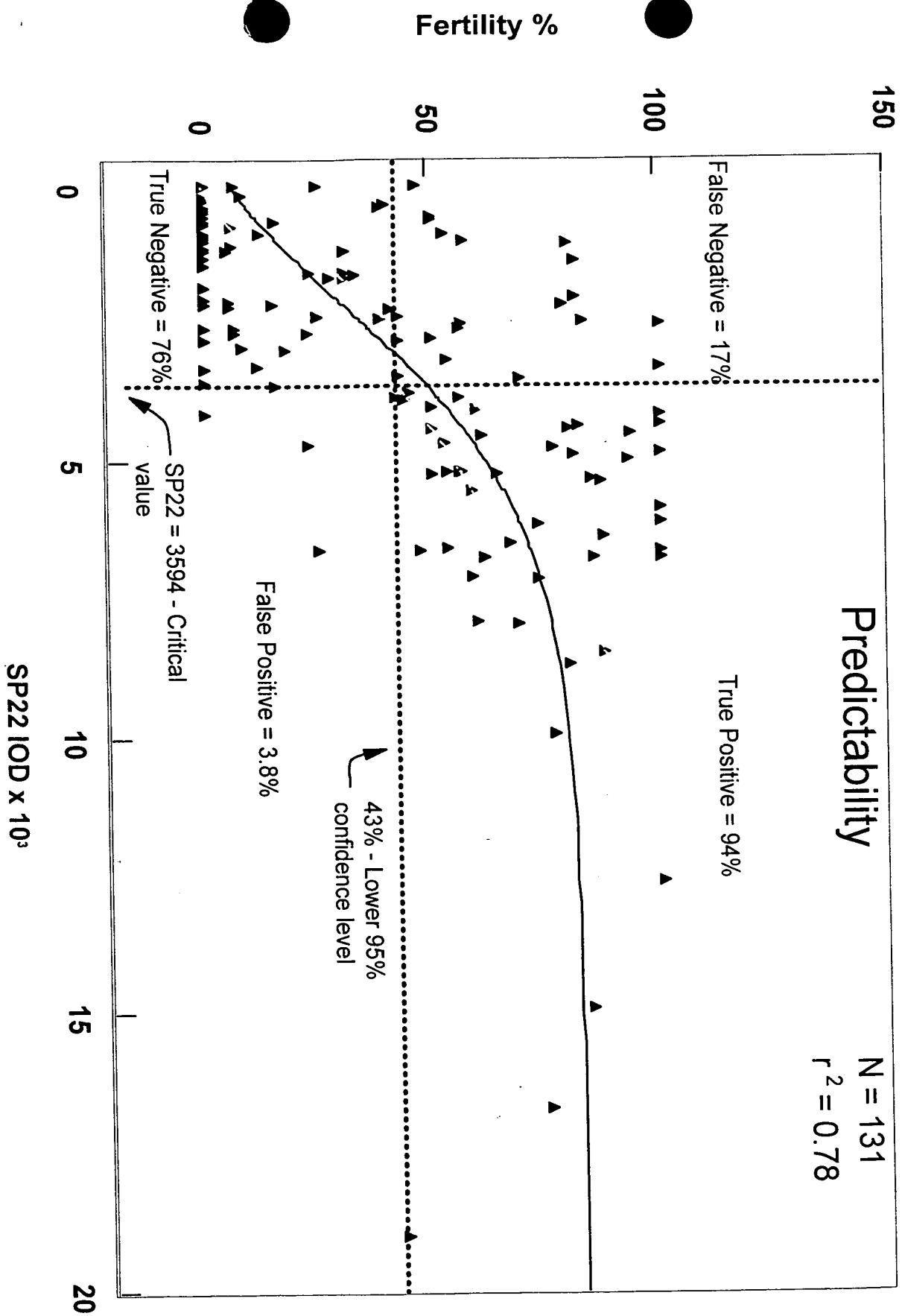


Figure 7

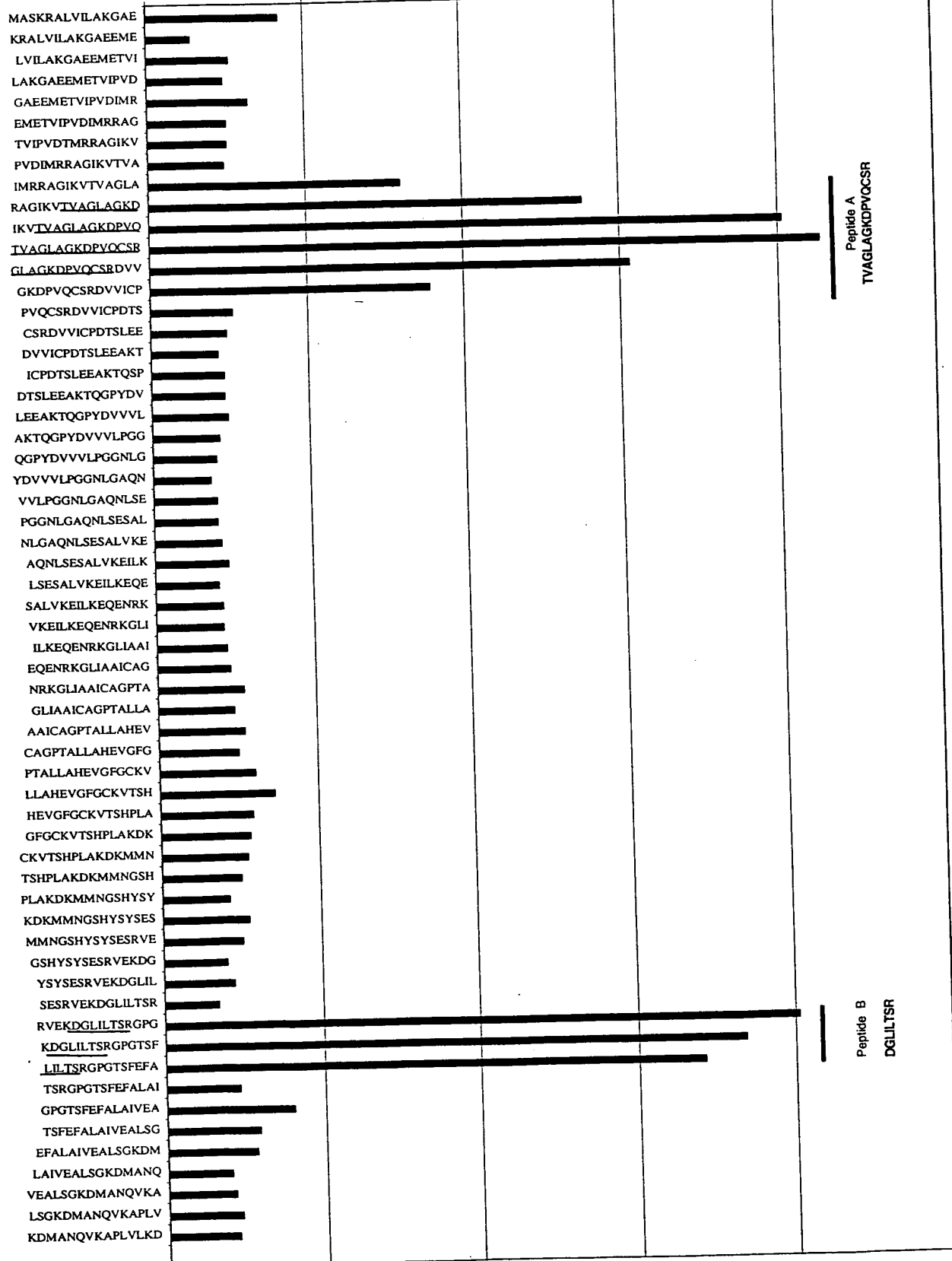


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Figure 8

OD at 450 nm

0 0.5 1 1.5 2 2.5



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Figure 10

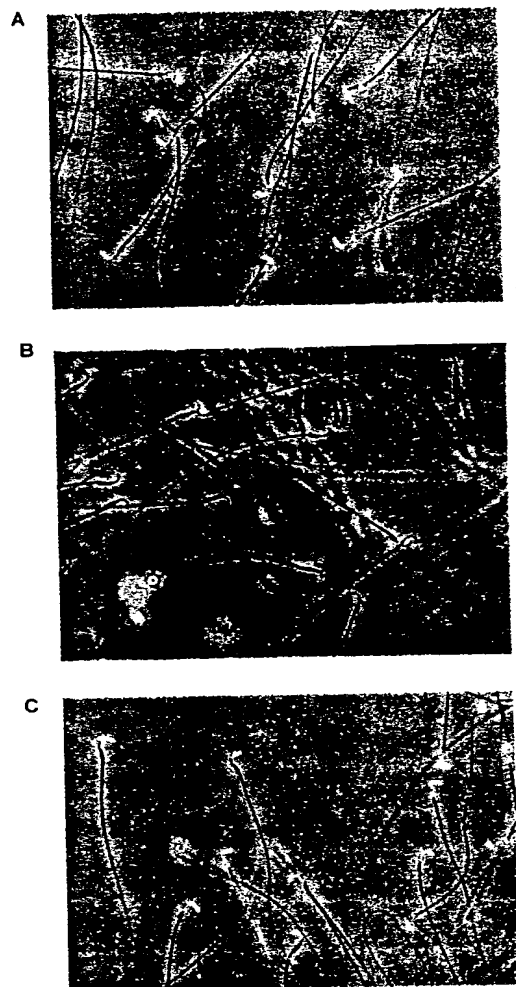


Figure 11

In Utero Insemination

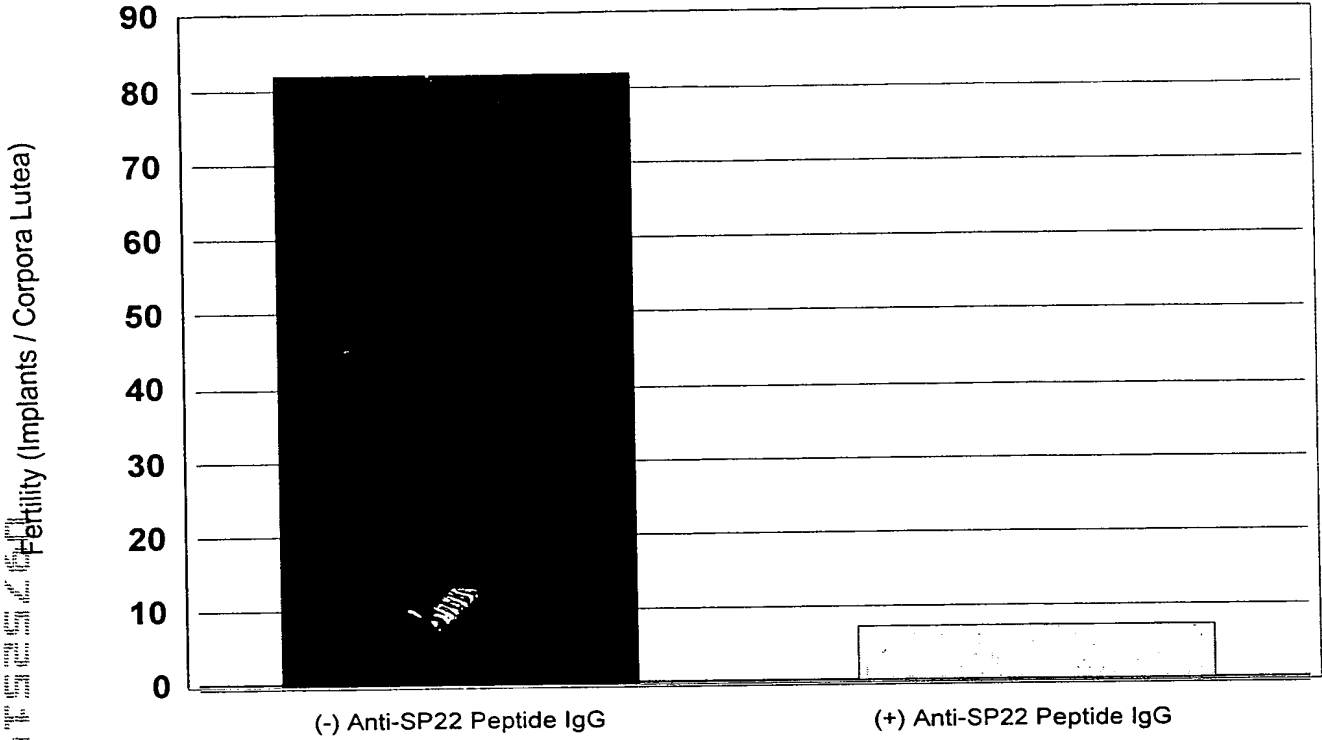


Figure 12

In Utero Insemination

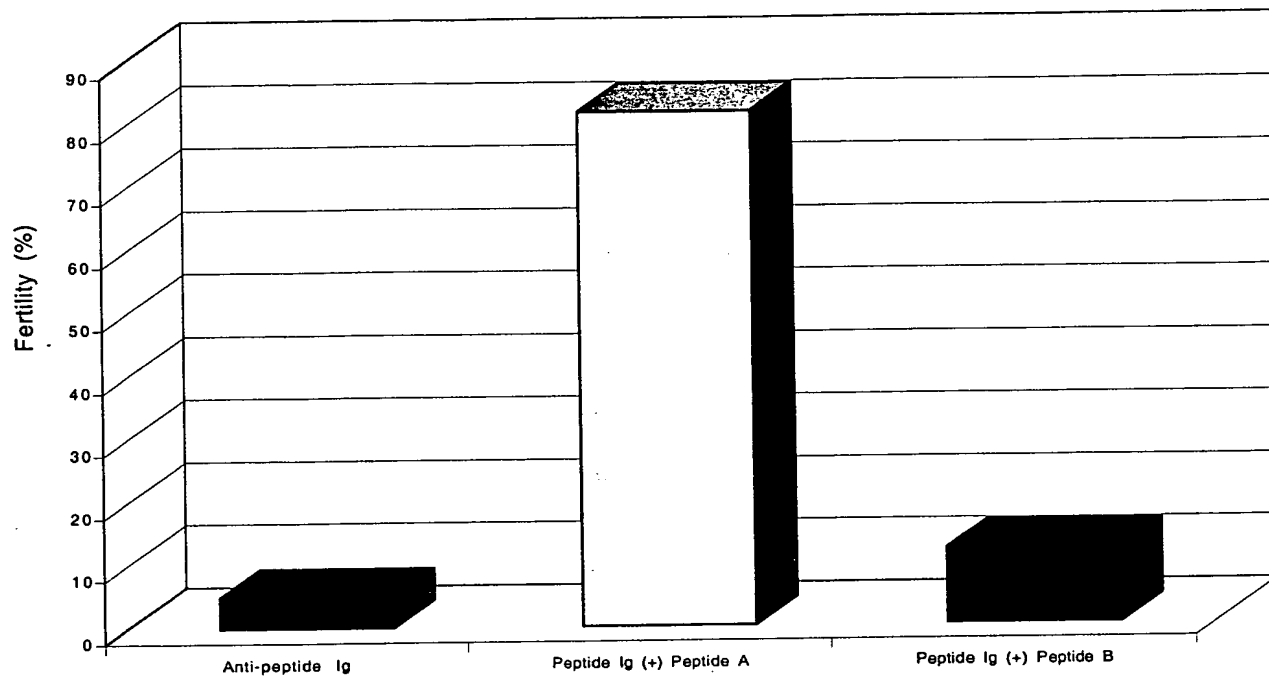


Figure 13

OD at 450 nm

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Sequential Sp22 15 MER Peptides

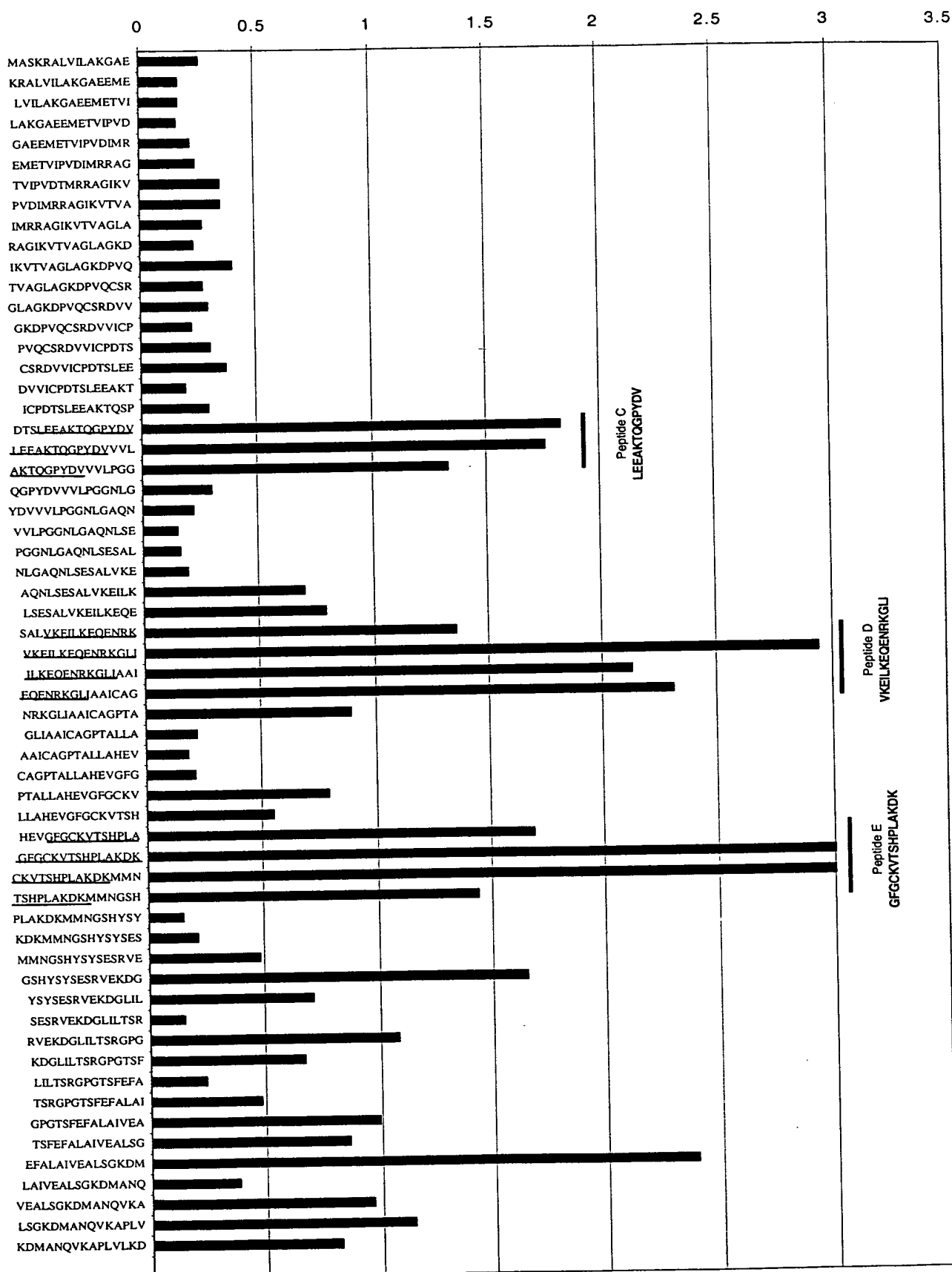
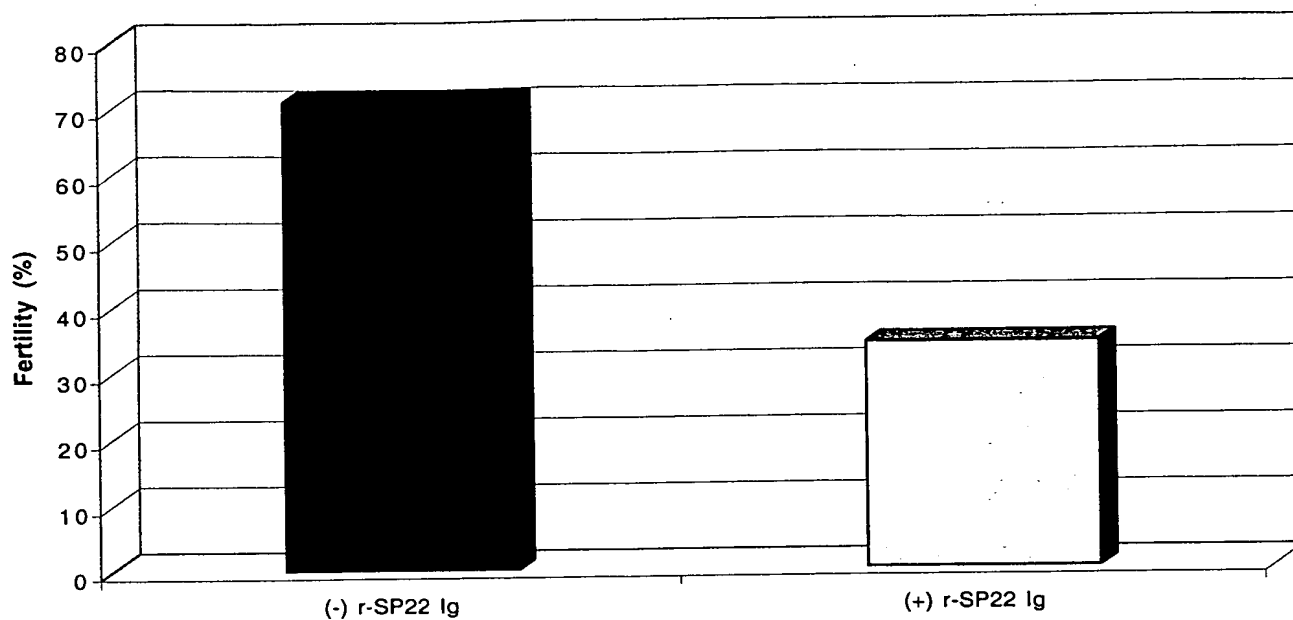
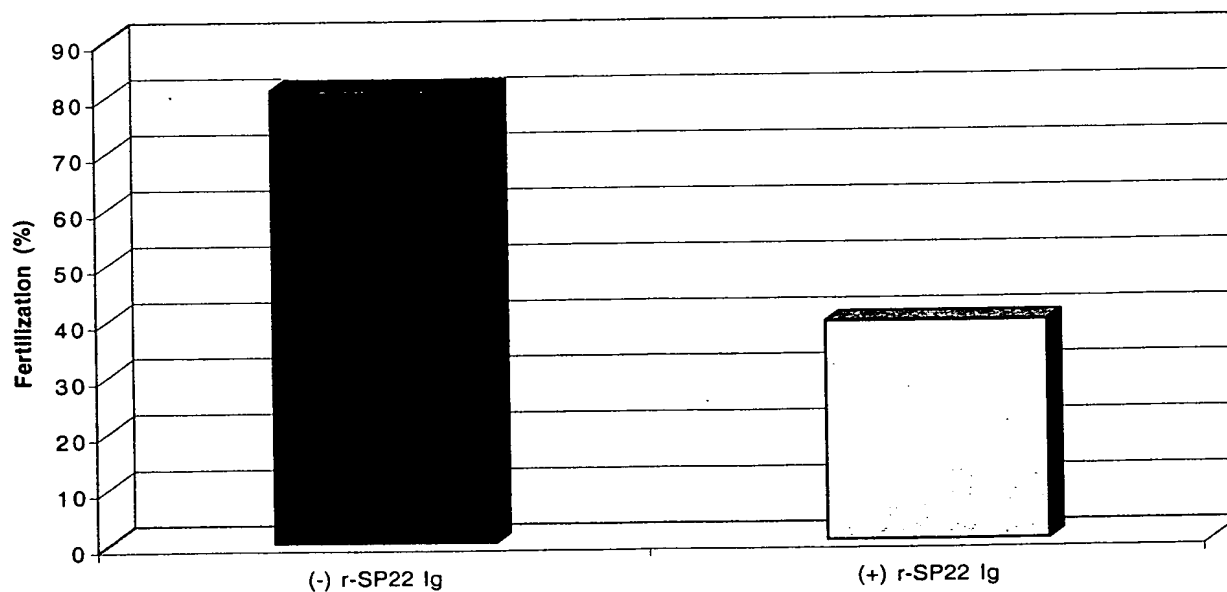


Figure 14

In Utero Insemination



In Vitro Fertilization



[illegible]

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FIGURE 16

SP22 (A)

1 getgtgcagagccgtctggcaggggtgacctccTaaagggatattccatctttattaatcattag 65
66 tagtgtgggtcagagacttagcaccattgggtctccccaacctgggtccagacatttcagcagttta 130
131 tcggaacagcaacaacagcaacaaaaccttcaaaatttacaagtctttaagaaatagaaATGgca 195
1 M A 2
196 tccaaaagagctctggtcactcctagccaaaggagcagaggagatggagacagtgattcctgtgga 260
3 S K R A I V I L A K G A E E M E T V I P V D 24
261 cactatgctggcgagctgggattaaagtcaccggttgagggttggtgggaaggaccccggtgcagt 325
25 I M R R A G I K V T V A G L A G K D P V Q 45
326 gtagccgtgatgtagtgtattgttcgggataccagtcctggaagaagcaaaaaacacagggaccatac 390
46 C S R D V V I C P D T S L E E A K T Q G P Y 67
391 gatgtgggttgttcttccaggaggaaatctgggtgcacagaacttatctgagtcggcctttggtgaa 455
68 D V V V L P G G N L G A Q N L S E S A L V K 89
456 ggagatcctcaaggagcaggagaacaggaagggcctcatagctgccatctgtgctgggtcctacgg 520
90 E I L K E Q E N R K G L I A A I C A G P T 110
521 ccctgctgggtcacgaagtaggctttggatgcaagggttacatcgcacccattggctaaggacaaa 585
111 A L L A F E V G F G C K V T S H P L A K D K 132
586 atgatgaacggcagtcactacagctactcagagagccgtgtgggagaaggacggcctcactcctcac 650
133 M M N G S H Y S Y S E S R V E K D G L I L T 154
651 cagccgtgggcccggggaccagcttcgagtttgctggccattgtggaggcactcagtggaagg 715
155 S R G P G T S F E F A L A I V E A L S G K 175
716 acatggctaaccagtggaaggccccgcttgttctcaaagacTAGagagcccaagccctggaccct 780
176 D M A N Q V K A P L V L K D 189
781 ggacccccagggtgagcaggcattggaagcccactagtgtgtccacagcccagtgaaacctggcat 845
846 tgggaagcccactagtgtgtccacagcccagtgaaacctcaggaactaacgtgtgaagtagcccgct 910
911 gctcaggaatctcgccctggctctgtactattctgagccttgctagtagaataaacagttcccca 975

FIGURE 16